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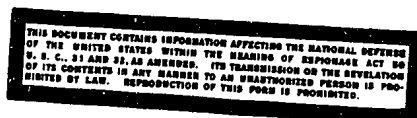
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NEW METHODS INCREASE EFFICIENCY OF SOVIET PETROLEUM INDUSTRY

WEIGHTED MIXTURES FOR MUD PUMPS INCREASE DRILLING COSTS -- Baku, Bakinskiy Rabochiy, 21 Oct 51

The use of a weighted mixture in mud pumps in some USSR petroleum enterprises, particularly in the Azneft' Association, has taken on extremely wide proportions. In well No 6, 960 tons of hematite were used in drilling little more than 100 meters. In well No 10, 7.8 tons of weighted mixture were used per meter of drilling. In drilling well No 4, 2,000 tons of weighted mixture were consumed. Drilling 1,263 meters in well No 40 of the Kergezneft' Trust drilling office required 1,268 tons of weighted mixture.

The use of a weighted mixture in mud pumps should be based on knowledge of deposit pressure. The counterpressure created by the column of clayey mixture should not exceed deposit pressure more than 20 percent. This factor should determine whether or not a weighted mixture is to be used. In the Kirovneft', Kaganovicheft', Ordzhonikidzeneft' trusts, and some others, it would be possible to eliminate almost completely the use of a weighted mixture. Even in those trusts where the greatest amount of weighted mixture is required (Nef-techalanef', Molotovneft', Kergezneft'), it would still be possible to cut down on its consumption. In cases where a weighted mixture is necessary, it is possible to use a substitute material for hematite.

DRILLING EXPERT ELIMINATES USE OF WEIGHTED MIXTURE -- Baku, Bakinskiy Rabochiy, 3 Feb 52

On 31 January, a meeting of the collegium of the Ministry of the Petroleum Industry and the central committee of the trade union was also attended by innovators in oil-well drilling from Azerbaydzhan, Groznyy, Bashkir, Tatar, Krasnodar, and other petroleum regions.

Fatkuliyeu, drilling expert of the Buzovny office of the Azneft' Association, told how his brigade had drilled a deep oil well without using a weighted

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mixture and how it had finished the well 40 days ahead of schedule. A saving of 200,000 rubles was effected by the elimination of a weighted mixture.

At present, operations according to Fatkuliye's method are being carried on in several of the Azneft' trusts. In the fourth quarter of 1951, thousands of tons of weighting material were saved.

Maletskiy, drilling expert of the Gudermes drilling office of the Grozneft' Association, explained the method of preparing and mixtures devised by him in collaboration with workers in a chemical laboratory.

A number of those present at the meeting discussed achievements in high-speed drilling and it developed that the record for high-speed drilling in Baku was set by a brigade which drilled an oil well at the rate of 5,212 meters per machine-month.

MULTILEVEL PETROLEUM EXTRACTION MAKES HEADWAY IN AZERBAIDZHAN -- Moscow, Trud, 1 Feb 52

Engineers of the Azneft' Association have developed oil wells of an original design to extract oil simultaneously from several levels. The first experiment was carried out in oil well No 408 of oil field No 3, Stalinneft' Trust, and gave excellent results.

Recently, petroleum workers of the Kirovskiy Rayon solved the task of exploiting three levels from one well. Two such wells were drilled by Expert Driller G. Babayev in oil field No 3 of the Kirovneft' Trust. At oil field No 5 the brigade of Beybal Zal Ogly recently put into operation oil wells from which petroleum was extracted simultaneously from three levels by the compressor method.

UNDERGROUND REPAIR KEEPS OIL WELLS FUNCTIONING -- Baku, Bakinskiy Rabochiy, 18 Jan 52

B. Mirzoyev, expert petroleum extractor of oil field No 6 of the Stalinneft' Trust, writes as follows of his brigade and the section in which he works: The wells in the section are old, having been in operation for more than 10 years. Consequently, the level of their liquid is low and the daily output not large. Productive levels lie deep in the ground, making it necessary to suspend the deep-well pumps to a depth of 1,300-1,400 meters. To assure the steady operation of all the wells, continual, correctly organized underground repair is necessary. The underground repairmen of the section's multipurpose brigade are exceeding their progressive norms and repairing wells at high speed.

STALINNEFT' TRUST PETROLEUM WORKERS START 1952 WITH SUCCESSES -- Baku, Bakinskiy Rabochiy, 23 Jan 52

The Stalinneft' Trust is striving to complete the 1952 quota ahead of schedule. Results are available for the first two 10-day periods of January, showing that the 20-day quota has been fulfilled and that the daily output is considerably higher than it was in November and December.

Since the first days of 1952, oil fields, No 1, 2, 4, 7, and 8 have been fulfilling or exceeding their quotas. Workers of oil field No 2 are having the greatest success, fulfilling their daily quota 104 percent. Well No 625, restored to activity, is yielding 10 tons of petroleum daily. At well No 3142, brought in by drilling normal operations are being carried out. Every

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day 12 tons of petroleum are poured into storage tanks. Improved work methods at well No 3110 have increased the well's daily output 7 tons.

DAGESTAN EMPLOYS TURBODRILLING EXCLUSIVELY -- Moskovskaya Pravda, 1 Feb 52

Turbodrilling is the only method being employed in Dagestan for the drilling of oil wells. The drilling personnel have mastered the new techniques and introduced many suggestions to improve the design of turbodrills.

A competition of innovators and inventors is spreading among all enterprises of the Dagmorneft' Trust. In 1951, more than 570 efficiency suggestions came from the workers, engineers, and technicians and resulted in a saving of more than 6 million rubles for the trust.

ACID RESIN VALUABLE BY-PRODUCT OF PETROLEUM REFINING -- Kiev, Pravda Ukrainy, 19 Dec 52

In refining petroleum a considerable quantity of acid resin (gudron) is obtained as waste products of basic production. Up to now, these waste products have been inadequately utilized. In a number of refineries of the Ukraine, acid resin is removed to reservoirs beyond the grounds of the plant where it remains for years, taking up space, and polluting the air with sulfur dioxide.

However, this is a valuable substance and should be utilized. It is known that sulfuric acid can be obtained from it and organic materials can also be recovered from it. The organic part of acid resin can serve as a raw material for the obtaining of road and construction petroleum asphalt, asphalt varnishes, plastics, and lubricating greases.

Soviet specialists have established the possibility of the efficient salvaging of acid resin at every petroleum refinery. Unfortunately enterprises of the Ukrneftzavody Trust have underestimated this possibility.

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